

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P234605

Luminaire Tested: **CTA-F-5050-30L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-30L840-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

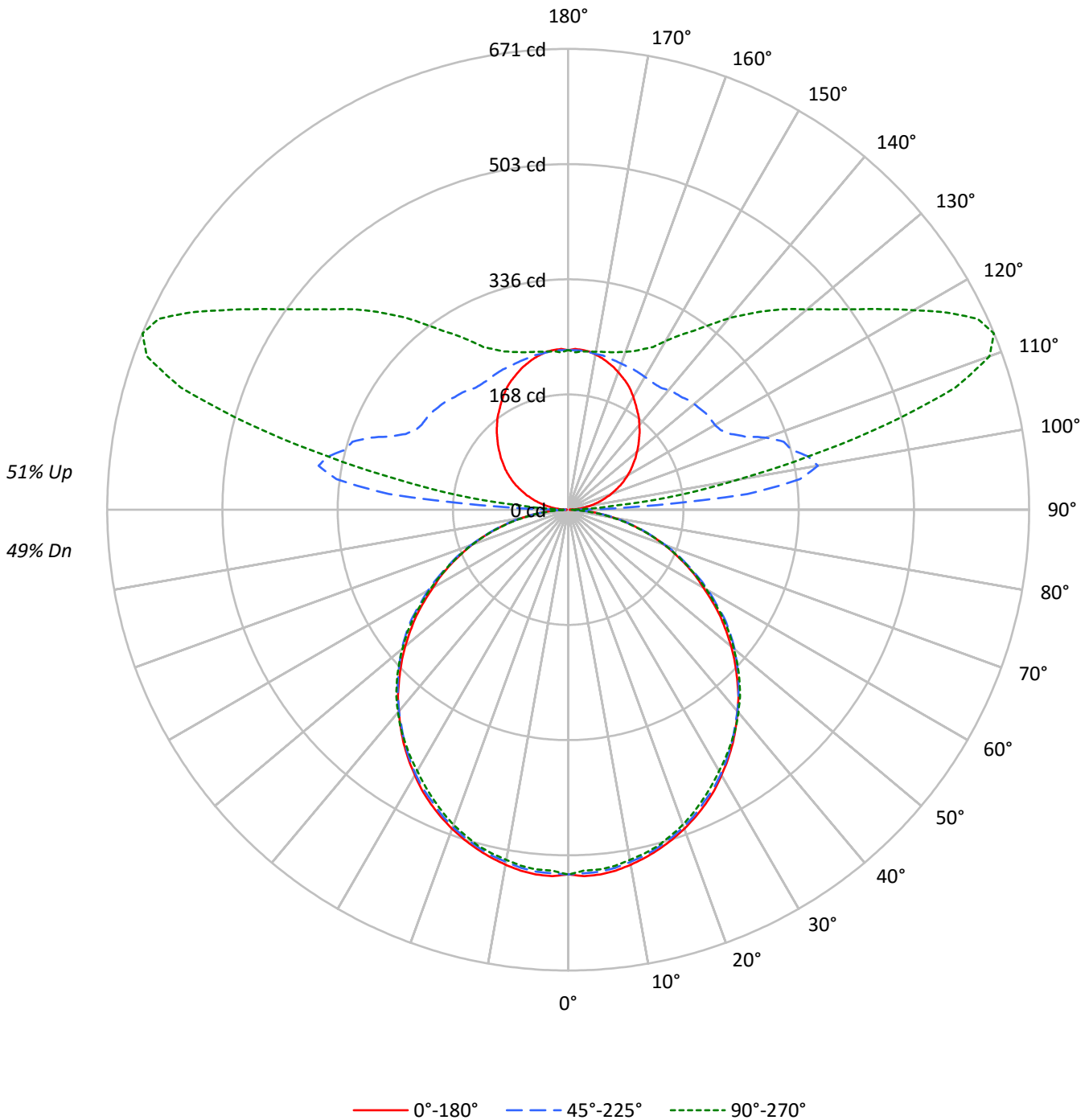
Lumens per Lamp: N/A
Luminaire Lumens: 3077.5 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49																			
1	97	93	89	85	90	86	82	79	72	70	68	60	58	57	49	48	46	41																			
2	88	81	75	69	81	75	69	65	63	59	56	52	50	47	43	41	39	34																			
3	81	71	63	57	74	66	59	54	56	51	46	46	43	39	38	35	33	29																			
4	74	63	55	48	67	58	51	45	49	44	39	41	37	34	33	30	28	24																			
5	67	56	47	41	62	52	44	39	44	38	34	37	32	29	30	27	24	21																			
6	62	50	42	36	57	46	39	34	39	34	29	33	29	25	27	24	21	18																			
7	57	45	37	31	53	42	35	29	36	30	26	30	26	22	25	21	19	16																			
8	53	41	33	28	49	38	31	26	33	27	23	27	23	20	23	19	17	14																			
9	50	37	30	24	46	35	28	23	30	24	20	25	21	18	21	18	15	13																			
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	19	16	14	12																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3429	3429	3429
5°	3456	3429	3409
10°	3442	3415	3395
15°	3421	3400	3387
20°	3397	3376	3355
25°	3370	3340	3312
30°	3329	3314	3276
35°	3287	3270	3262
40°	3230	3230	3248
45°	3175	3202	3221
50°	3112	3175	3164
55°	3041	3133	3098
60°	2936	3040	3002
65°	2882	2943	2912
70°	2810	2847	2810
75°	2670	2722	2670
80°	2503	2577	2425
85°	2193	2267	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.6
10°-20°	143.4	4.7
20°-30°	215.8	7.0
30°-40°	259.2	8.4
40°-50°	269.8	8.8
50°-60°	244.6	7.9
60°-70°	189.1	6.1
70°-80°	114.6	3.7
80°-90°	34.4	1.1
90°-100°	122.8	4.0
100°-110°	319.1	10.4
110°-120°	322.9	10.5
120°-130°	252.2	8.2
130°-140°	198.8	6.5
140°-150°	148.5	4.8
150°-160°	105.1	3.4
160°-170°	64.9	2.1
170°-180°	22.1	0.7
0°-30°	409.4	13.3
0°-40°	668.6	21.7
0°-60°	1182.9	38.4
0°-90°	1521.0	49.4
90°-120°	764.9	24.9
90°-150°	1364.4	44.3
90°-180°	1557.0	50.6
0°-180°	3077.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	533	528	529	527	526	51
15°	512	508	509	509	507	144
25°	473	468	469	467	465	218
35°	417	413	415	414	414	261
45°	348	346	351	353	353	268
55°	270	270	278	276	275	241
65°	189	191	193	192	191	187
75°	107	109	109	108	107	114
85°	30	31	31	28	26	32
90°	2	4	4	4	4	3
95°	15	48	262	115	71	16
105°	49	87	336	556	480	51
115°	84	109	261	566	657	82
125°	115	134	245	428	509	103
135°	146	160	232	356	410	113
145°	175	184	222	288	318	110
155°	203	206	225	246	258	93
165°	222	222	228	235	238	63
175°	233	231	232	232	231	22
180°	232	232	232	232	232	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	531.0	531.0	531.0	531.0	531.0
2.5°	534.1	530.0	530.0	529.0	525.9
5°	533.1	528.0	529.0	526.9	525.9
7.5°	530.0	524.9	525.9	523.9	522.9
10°	524.9	519.8	520.8	519.8	517.8
12.5°	518.8	514.7	515.7	514.7	512.7
15°	511.7	507.6	508.6	508.6	506.6
17.5°	503.5	499.4	500.4	500.4	497.4
20°	494.3	490.3	491.3	490.3	488.2
22.5°	484.1	480.1	481.1	479.0	477.0
25°	472.9	467.8	468.8	466.8	464.8
27.5°	460.7	455.6	457.6	454.6	452.5
30°	446.4	442.3	444.4	440.3	439.3
32.5°	432.2	428.1	430.1	427.1	427.1
35°	416.9	412.8	414.8	413.8	413.8
37.5°	400.6	397.5	398.5	399.5	400.6
40°	383.2	381.2	383.2	384.3	385.3
42.5°	366.9	363.9	366.9	369.0	370.0
45°	347.6	345.5	350.6	352.7	352.7
47.5°	329.2	328.2	333.3	334.3	334.3
50°	309.8	309.8	316.0	316.0	314.9
52.5°	289.5	290.5	297.6	296.6	295.6
55°	270.1	270.1	278.3	276.2	275.2
57.5°	248.7	248.7	255.8	253.8	252.8
60°	227.3	230.3	235.4	232.4	232.4
62.5°	208.9	210.0	214.0	212.0	211.0
65°	188.6	190.6	192.6	191.6	190.6
67.5°	168.2	171.2	172.3	170.2	169.2
70°	148.8	150.8	150.8	149.8	148.8
72.5°	128.4	130.5	129.4	128.4	127.4
75°	107.0	109.1	109.1	108.0	107.0
77.5°	87.7	88.7	88.7	87.7	85.6
80°	67.3	69.3	69.3	67.3	65.2
82.5°	48.9	49.9	48.9	47.9	45.9
85°	29.6	30.6	30.6	28.5	26.5
87.5°	13.3	14.3	12.2	11.2	10.2
90°	2.0	4.1	4.1	4.1	4.1
92.5°	8.2	30.6	96.8	27.5	17.3
95°	15.3	47.9	261.9	115.2	71.3
97.5°	23.4	59.1	340.4	215.1	163.1
100°	31.6	75.4	369.0	324.1	248.7
102.5°	39.8	83.6	357.8	448.5	357.8
105°	48.9	86.6	336.3	555.5	480.1
107.5°	57.1	88.7	329.2	612.6	591.2
110°	66.3	94.8	306.8	624.8	652.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	74.4	101.9	278.3	605.4	670.7
115°	83.6	109.1	260.9	565.7	657.4
117.5°	91.7	115.2	250.7	522.9	621.7
120°	99.9	122.3	246.7	485.2	581.0
122.5°	108.0	128.4	245.6	454.6	543.3
125°	115.2	133.5	244.6	428.1	508.6
127.5°	123.3	139.6	241.6	407.7	479.0
130°	130.5	145.8	239.5	390.4	453.6
132.5°	138.6	152.9	236.5	373.0	432.2
135°	145.8	160.0	232.4	355.7	409.7
137.5°	153.9	166.1	230.3	337.4	386.3
140°	161.0	172.3	227.3	320.0	363.9
142.5°	169.2	178.4	223.2	301.7	339.4
145°	175.3	184.5	222.2	288.4	318.0
147.5°	182.4	190.6	222.2	275.2	300.7
150°	189.6	195.7	223.2	259.9	283.3
152.5°	196.7	200.8	224.2	251.8	267.0
155°	202.8	205.9	225.3	245.6	257.9
157.5°	207.9	210.0	225.3	241.6	249.7
160°	213.0	215.1	226.3	239.5	244.6
162.5°	218.1	219.1	227.3	237.5	240.5
165°	222.2	222.2	228.3	235.4	237.5
167.5°	226.3	225.3	230.3	233.4	235.4
170°	229.3	228.3	230.3	233.4	233.4
172.5°	232.4	230.3	231.4	232.4	232.4
175°	233.4	231.4	232.4	232.4	231.4
177.5°	234.4	232.4	232.4	232.4	229.3
180°	232.4	232.4	232.4	232.4	232.4

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